SUBJECT INDEX

Artificial islands

New Construction Material for Offshore Application, Edward J. Thompson, Robert E. Loov, Jack E. Gillott and Nigel G. Shrive, CR Mar. 88 p35-46.

Beds

Predicting Freezing Design Depth of Sludge-Freezing Beds, C. James Martel, CR Dec. 88 p145-156.

Bond stress

High-Strength Concrete-Steel Bond Behavior at Low Temperature, T. S. Shih, G. C. Lee and K. C. Chang, CR Dec. 88 p157-168.

Bonding strength

Mechanical Properties of High-Strength Concrete at Low Temperature, G. C. Lee, T. S. Shih and K. C. Chang, CR Dec. 88 p169-178.

Cold regions

Structural Fiber Composite Materials for Cold Regions, Piyush K. Dutta, CR Sept. 88 p124-134.

Thermal Performance Degradation of Wet Insulations in Cold Regions, Terry McFadden, CR Mar. 88 p25-34.

Compression tests

Volume Change Behavior of Frozen Sands, Hamdy Youssef, CR June 88 p49-64.

Compressive strength

Mechanical Properties of High-Strength Concrete at Low Temperature, G. C. Lee, T. S. Shih and K. C. Chang, CR Dec. 88 p169-178.

Concrete

Mechanical Properties of Concrete at Low Temperature, G. C. Lee, T. S. Shih and K. C. Chang, CR Mar. 88 p13-24.

Concrete properties

Mechanical Properties of High-Strength Concrete at Low Temperature, G. C. Lee, T. S. Shih and K. C. Chang, CR Dec. 88 p169-178.

Convection

Double-Diffusive Convection under Sea Ice, Joseph F. Atkinson and Akio Wake, CR June 88 p89-95.

Crack propagation

Application of Fracture Mechanics to Ice/Structure Interactions, Wilfrid A. Nixon, CR Mar. 88 p1-12.

Cyclic loads

High-Strength Concrete-Steel Bond Behavior at Low Temperature, T. S. Shih, G. C. Lee and K. C. Chang, CR Dec. 88 p157-168.

Depth

Predicting Freezing Design Depth of Sludge-Freezing Beds, C. James Martel, CR Dec. 88 p145-156.

Dewatering

Predicting Freezing Design Depth of Sludge-Freezing Beds, C. James Martel, CR Dec. 88 p145-156.

Diffusivity

Double-Diffusive Convection under Sea Ice, Joseph F. Atkinson and Akio Wake, CR June 88 p89-95.

Embankments

Geosynthetics Supporting Embankments Over Voids, Thomas C. Kinney and Billy Connor, CR Dec. 87 p158-170.

Erosion control

New Construction Material for Offshore Application, Edward J. Thompson, Robert E. Loov, Jack E. Gillott and Nigel G. Shrive, CR Mar. 88 p35-46.

Fiber composites

Structural Fiber Composite Materials for Cold Regions, Piyush K. Dutta, CR Sept. 88 p124-134.

Fracture mechanics

Application of Fracture Mechanics to Ice/Structure Interactions, Wilfrid A. Nixon, CR Mar. 88 p1-12.

Freezing

Predicting Freezing Design Depth of Sludge-Freezing Beds, C. James Martel, CR Dec. 88 p145-156.

Frost penetration

Frost Penetration and Thermal Regime in Dry Gravel, S. McKeown, J. I. Clark and D. Matheson, CR Sept. 88 p111-123.

Frozen soils

Classification and Laboratory Testing of Artificially Frozen Ground, F. H. Sayles, T. H. W. Baker, F. Gallavres, H. L. Jessberger, S. Kinosita, A. V. Sadovskiy, D. Sego and S. S. Vyalov, CR Mar. 87 p22-48.

Volume Change Behavior of Frozen Sands, Hamdy Youssef, CR June 88 p49-64.

Geotextiles

Geosynthetics Supporting Embankments Over Voids, Thomas C. Kinney and Billy Connor, CR Dec. 87 p158-170.

Gravel

Frost Penetration and Thermal Regime in Dry Gravel, S. McKeown, J. I. Clark and D. Matheson, CR Sept. 88 p111-123.

High strength concretes

High-Strength Concrete-Steel Bond Behavior at Low Temperature, T. S. Shih, G. C. Lee and K. C. Chang, CR Dec. 88 p157-168.

Mechanical Properties of High-Strength Concrete at Low Temperature, G. C. Lee, T. S. Shih and K. C. Chang, CR Dec. 88 p169-178.

Ice control

Double-Diffusive Convection under Sea Ice, Joseph F. Atkinson and Akio Wake, CR June 88 p89-95.

Ice loads

Application of Fracture Mechanics to Ice/Structure Interactions, Wilfrid A. Nixon, CR Mar. 88 p1-12.

Ice sheets

Application of Fracture Mechanics to Ice/Structure Interactions, Wilfrid A. Nixon, CR Mar. 88 p1-12.

Design Approach for Piles Subject to Ice Jacking, Tuncer B. Edil, Clifford J. Roblee and C. Allen Wortley, CR June 88 p65-86.

Insulation

Thermal Performance Degradation of Wet Insulations in Cold Regions, Terry McFadden, CR Mar. 88 p25-34.

Laboratory tests

Classification and Laboratory Testing of Artificially Frozen Ground, F. H. Sayles, T. H. W. Baker, F. Gallavres, H. L. Jessberger, S. Kinosita, A. V. Sadovskiy, D. Sego and S. S. Vyalov, CR Mar. 87 p22-48.

Marine engineering

Design Approach for Piles Subject to Ice Jacking, Tuncer B. Edil, Clifford J. Roblee and C. Allen Wortley, CR June 88 p65-86.

Materials, properties

Structural Fiber Composite Materials for Cold Regions, Piyush K. Dutta, CR Sept. 88 p124-134.

Mathematical models

Geosynthetics Supporting Embankments Over Voids, Thomas C. Kinney and Billy Connor, CR Dec. 87 p158-170.

Predicting Freezing Design Depth of Sludge-Freezing Beds, C. James Martel, CR Dec. 88 p145-156.

Mechanical properties

Mechanical Properties of Concrete at Low Temperature, G. C. Lee, T. S. Shih and K. C. Chang, CR Mar. 88 p13-24.

Modulus of elasticity

Mechanical Properties of High-Strength Concrete at Low Temperature, G. C. Lee, T. S. Shih and K. C. Chang, CR Dec. 88 p169-178.

Moisture content

Thermal Performance Degradation of Wet Insulations in Cold Regions, Terry McFadden, CR Mar. 88 p25-34.

Offshore structures

Application of Fracture Mechanics to Ice/Structure Interactions, Wilfrid A. Nixon, CR Mar. 88 p1-12.

New Construction Material for Offshore Application, Edward J. Thompson, Robert E. Loov, Jack E. Gillott and Nigel G. Shrive, CR Mar. 88 p35-46.

Permafrost

Piles in Permafrost, Andrew G. Heydinger, CR June 87 p59-75.

Pile foundation design

Design Approach for Piles Subject to Ice Jacking, Tuncer B. Edil, Clifford J. Roblee and C. Allen Wortley, CR June 88 p65-86.

Piles

Piles in Permafrost, Andrew G. Heydinger, CR June 87 p59-75.

Poisson ratio

Mechanical Properties of High-Strength Concrete at Low Temperature, G. C. Lee, T. S. Shih and K. C. Chang, CR Dec. 88 p169-178.

Research needs

Piles in Permafrost, Andrew G. Heydinger, CR June 87 p59-75.

Salt water

Double-Diffusive Convection under Sea Ice, Joseph F. Atkinson and Akio Wake, CR June 88 p89-95.

Sand

New Construction Material for Offshore Application, Edward J. Thompson, Robert E. Loov, Jack E. Gillott and Nigel G. Shrive, CR Mar. 88 p35-46.

Sands

Volume Change Behavior of Frozen Sands, Hamdy Youssef, CR June 88 p49-64.

Sea water

Double-Diffusive Convection under Sea Ice, Joseph F. Atkinson and Akio Wake, CR June 88 p89-95.

Shear deformation

Volume Change Behavior of Frozen Sands, Hamdy Youssef, CR June 88 p49-64.

Sludge drying

Predicting Freezing Design Depth of Sludge-Freezing Beds, C. James Martel, CR Dec. 88 p145-156.

Soil classification

Classification and Laboratory Testing of Artificially Frozen Ground, F. H. Sayles, T. H. W. Baker, F. Gallavres, H. L. Jessberger, S. Kinosita, A. V. Sadovskiy, D. Sego and S. S. Vyalov, CR Mar. 87 p22-48.

Splitting

Mechanical Properties of High-Strength Concrete at Low Temperature, G. C. Lee, T. S. Shih and K. C. Chang, CR Dec. 88 p169-178.

State-of-the-art reviews

Piles in Permafrost, Andrew G. Heydinger, CR June 87 p59-75.

Steel construction

High-Strength Concrete-Steel Bond Behavior at Low Temperature, T. S. Shih, G. C. Lee and K. C. Chang, CR Dec. 88 p157-168.

Sulfur

New Construction Material for Offshore Application, Edward J. Thompson, Robert E. Loov, Jack E. Gillott and Nigel G. Shrive, CR Mar. 88 p35-46.

Temperature effects

Effects of Low Temperature on Physichochemical Processes in Water Quality Control, Thiruvenkatachari Viraraghavan and Geeyerpuram N. Mathavan, CR Sept. 88 p101-110.

High-Strength Concrete-Steel Bond Behavior at Low Temperature, T. S. Shih, G. C. Lee and K. C. Chang, CR Dec. 88 p157-168.

Mechanical Properties of Concrete at Low Temperature, G. C. Lee, T. S. Shih and K. C. Chang, CR Mar. 88 p13-24.

Mechanical Properties of High-Strength Concrete at Low Temperature, G. C. Lee, T. S. Shih and K. C. Chang, CR Dec. 88 p169-178.

Structural Fiber Composite Materials for Cold Regions, Piyush K. Dutta, CR Sept. 88 p124-134.

Tensile strength

Mechanical Properties of High-Strength Concrete at Low Temperature, G. C. Lee, T. S. Shih and K. C. Chang, CR Dec. 88 p169-178.

Thermal diffusion

Frost Penetration and Thermal Regime in Dry Gravel, S. McKeown, J. I. Clark and D. Matheson, CR Sept. 88 p111-123.

Thermal gradient

Thermal Performance Degradation of Wet Insulations in Cold Regions, Terry McFadden, CR Mar. 88 p25-34.

Thermal resistance

Thermal Performance Degradation of Wet Insulations in Cold Regions, Terry McFadden, CR Mar. 88 p25-34.

Triaxial tests

Volume Change Behavior of Frozen Sands, Hamdy Youssef, CR June 88 p49-64.

Voids

Geosynthetics Supporting Embankments Over Voids, Thomas C. Kinney and Billy Connor, CR Dec. 87 p158-170.

Volume change

Volume Change Behavior of Frozen Sands, Hamdy Youssef, CR June 88 p49-64.

Wastewater treatment

Effects of Low Temperature on Physichochemical Processes in Water Quality Control, Thiruvenkatachari Viraraghavan and Geeyerpuram N. Mathavan, CR Sept. 88 p101-110.

Water treatment

Effects of Low Temperature on Physichochemical Processes in Water Quality Control, Thiruvenkatachari Viraraghavan and Geeyerpuram N. Mathavan, CR Sept. 88 p101-110.

AUTHOR INDEX

Atkinson, Joseph F.
Double-Diffusive Convection under Sea Ice, with Akio Wake, CR June 88, p89-95

Baker, T. H. W.
see Sayles, F. H., CR Mar. 87, p22-48

Chang, K. C.
see Lee, G. C., CR Mar. 88, p13-24
see Lee, G. C., CR Dec. 88, p169-178
see Shih, T. S., CR Dec. 88, p157-168

Clark, J. I.
see McKeown, S., CR Sept. 88, p111-123

Connor, Billy
see Kinney, Thomas C., CR Dec. 87, p158-170

Dutta, Piyush K.
Structural Fiber Composite Materials for Cold Regions, CR Sept. 88, p124-134

Edil, Tuncer B.
Design Approach for Piles Subject to Ice Jacking, with Clifford J. Roblee and C. Allen Wortley, CR June 88, p65-86

Gallavres, F.
see Sayles, F. H., CR Mar. 87, p22-48

Gillott, Jack E.
see Thompson, Edward J., CR Mar. 88, p35-46

Heydinger, Andrew G.
Piles in Permafrost, CR June 87, p59-75
disc: B. Ladanyi, CR Sept. 88, p140-141
clo: CR Sept. 88, p142

Jessberger, H. L.
see Sayles, F. H., CR Mar. 87, p22-48

Kinney, Thomas C.
Geosynthetics Supporting Embankments Over Voids, with Billy Connor, CR Dec. 87, p158-170
err: CR June 88, p97

Kinosita, S.
see Sayles, F. H., CR Mar. 87, p22-48

Ladanyi, B.
disc. (of Piles in Permafrost, by Andrew G. Heydinger, CR June 87, p59-75), CR Sept. 88, p140-141

Lee, G. C.
Mechanical Properties of Concrete at Low Temperature, with T. S. Shih and K. C. Chang, CR Mar. 88, p13-24
Mechanical Properties of High-Strength Concrete at Low Temperature, with T. S. Shih and K. C. Chang, CR Dec. 88, p169-178
see Shih, T. S., CR Dec. 88, p157-168

Loov, Robert E.
see Thompson, Edward J., CR Mar. 88, p35-46

McFadden, Terry
Thermal Performance Degradation of Wet Insulations in Cold Regions, CR Mar. 88, p25-34

McKeown, S.
Frost Penetration and Thermal Regime in Dry Gravel, with J. I. Clark and D. Matheson, CR Sept. 88, p111-123

Martel, C. James
Predicting Freezing Design Depth of Sludge-Freezing Beds, CR Dec. 88, p145-156

Mathavan, Geeyerpuram N.
see Viraraghavan, Thiruvenkatachari, CR Sept. 88, p101-110

Matheson, D.
see McKeown, S., CR Sept. 88, p111-123

Nixon, Wilfrid A.
Application of Fracture Mechanics to Ice/Structure Interactions, CR Mar. 88, p1-12

Roblee, Clifford J.
see Edil, Tuncer B., CR June 88, p65-86

Sadovskiy, A. V.
see Sayles, F. H., CR Mar. 87, p22-48

Sayles, F. H.
Classification and Laboratory Testing of Artificially Frozen Ground, with T. H. W. Baker, F. Gallavres, H. L. Jessberger, S. Kinosita, A. V. Sadovskiy, D. Sego and S. S. Vyalov, CR Mar. 87, p22-48
disc: Hamdy Youssef, CR Sept. 88, p137-139
clo: CR Sept. 88, p139-140

Sego, D.
see Sayles, F. H., CR Mar. 87, p22-48

Shih, T. S.
High-Strength Concrete-Steel Bond Behavior at Low Temperature, with G. C. Lee and K. C. Chang, CR Dec. 88, p157-168
see Lee, G. C., CR Mar. 88, p13-24
see Lee, G. C., CR Dec. 88, p169-178

Shrive, Nigel G.
see Thompson, Edward J., CR Mar. 88, p35-46

Thompson, Edward J.
New Construction Material for Offshore Application, with Robert E. Loov, Jack E. Gillott and Nigel G. Shrive, CR Mar. 88, p35-46

Viraraghavan, Thiruvenkatachari
Effects of Low Temperature on Physichochemical Processes in Water Quality Control, with Geeyerpuram N. Mathavan, CR Sept. 88, p101-110

Vyalov, S. S.
see Sayles, F. H., CR Mar. 87, p22-48

Wake, Akio
see Atkinson, Joseph F., CR June 88, p89-95

Wortley, C. Allen
see Edil, Tuncer B., CR June 88, p65-86

Youssef, Hamdy
Volume Change Behavior of Frozen Sands, CR June 88, p49-64
disc. (of Classification and Laboratory Testing of Artificially Frozen Ground, by F. H. Sayles, T. H. W. Baker, F. Gallavres, H. L. Jessberger, S. Kinosita, A. V. Sadovskiy, D. Sego and S. S. Vyalov, CR Mar. 87, p22-48), CR Sept. 88, p137-139